



Dolan Chemical Laboratory
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Water Analysis

Location: Mountaineer Plant

Report Date: 11/19/2012

1st Stage Feed

Sample Number: 124801-001

Date Collected: 11/07/2012 08:00

Date Received: 11/7/2012

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	23.6	ug/L		0.1	0.03	DPC	11/14/2012 14:20	EPA 200.8
Beryllium, Be	< 0.1	ug/L	U	0.5	0.1	DAM	11/15/2012 13:34	EPA 200.7
Selenium, Se	434	ug/L		0.5	0.1	DPC	11/14/2012 14:20	EPA 200.8
Aluminum, Al	0.101	mg/L		0.001	0.0003	DPC	11/14/2012 14:20	EPA 200.8
Boron, B	205	mg/L		0.01	0.002	DAM	11/15/2012 13:34	EPA 200.7
Iron, Fe	0.298	mg/L		0.01	0.002	DAM	11/15/2012 13:34	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	3.15	mg/L		0.5	0.1	DMM	11/12/2012	EPA 351.2
Nitrate-Nitrite, NO3-NO2 as N	14.0	mg/L		0.1	0.02	TDF	11/08/2012	EPA 300.1
Nitrate, NO3 as N	13.6	mg/L		0.5	0.1	TDF	11/08/2012	EPA 300.1
Nitrite, NO2 as N	0.4	mg/L	J	0.5	0.1	TDF	11/08/2012	EPA 300.1
Phosphorus, Total, P	0.06	mg/L		0.05	0.01	DMM	11/12/2012	EPA 365.4
Residue, Filterable, TDS	12400	mg/L		20	6	MSO	11/09/2012	SM20 2540C
Sulfate, SO4	5650	mg/L		50	20	TDF	11/08/2012	EPA 300.1

2nd Stage Feed

Sample Number: 124801-002

Date Collected: 11/07/2012 08:00

Date Received: 11/7/2012

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	33.4	ug/L		0.1	0.03	DPC	11/14/2012 14:25	EPA 200.8
Beryllium, Be	< 0.1	ug/L	U	0.5	0.1	DAM	11/15/2012 13:41	EPA 200.7
Selenium, Se	18.5	ug/L		0.5	0.1	DPC	11/14/2012 14:25	EPA 200.8
Aluminum, Al	1.23	mg/L		0.001	0.0003	DPC	11/14/2012 14:25	EPA 200.8
Boron, B	198	mg/L		0.01	0.002	DAM	11/15/2012 13:41	EPA 200.7
Iron, Fe	0.821	mg/L		0.01	0.002	DAM	11/15/2012 13:41	EPA 200.7

Bioreactor Effluent

Sample Number: 124801-003


Date Collected: 11/07/2012 08:00

Date Received: 11/7/2012

Parameter	Result	Units	Data Qual	RL	MDL	Analysis By	Analysis Date/Time	Method
Arsenic, As	3.95	ug/L		0.1	0.03	DPC	11/14/2012 14:29	EPA 200.8
Beryllium, Be	< 0.1	ug/L	U	0.5	0.1	DAM	11/15/2012 13:49	EPA 200.7
Selenium, Se	1.5	ug/L		0.5	0.1	DPC	11/14/2012 14:29	EPA 200.8
Aluminum, Al	1.22	mg/L		0.001	0.0003	DPC	11/14/2012 14:29	EPA 200.8
Boron, B	195	mg/L		0.01	0.002	DAM	11/15/2012 13:49	EPA 200.7
Iron, Fe	2.95	mg/L		0.01	0.002	DAM	11/15/2012 13:49	EPA 200.7
Total Kjeldahl Nitrogen, TKN as N	2.55	mg/L		0.5	0.1	DMM	11/12/2012	EPA 351.2
Nitrate-Nitrite, NO3-NO2 as N	< 0.02	mg/L	U	0.1	0.02	TDF	11/08/2012	EPA 300.1
Nitrate, NO3 as N	< 0.1	mg/L	U	0.5	0.1	TDF	11/08/2012	EPA 300.1
Nitrite, NO2 as N	< 0.1	mg/L	U	0.5	0.1	TDF	11/08/2012	EPA 300.1
Phosphorus, Total, P	0.06	mg/L		0.05	0.01	DMM	11/12/2012	EPA 365.4
Residue, Filterable, TDS	12400	mg/L		20	6	MSO	11/09/2012	SM20 2540C
Sulfate, SO4	5670	mg/L		50	20	TDF	11/08/2012	EPA 300.1

U: Analyte was analyzed and not detected at or above adjusted Method Detection Limit

J: Analyte was positively identified, though the quantitation was below Reporting Limit.



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